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March 31, 2004

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, SW Washington, DC 20554

RE: Ex parte presentation in docket MB 04-62, 4C Entity, LLC Certification for Digital Output Protection Technologies and Recording Methods to be Used in Covered Demodulator Products

Dear Madam Secretary:

Representatives of the 4C Entity, LLC met, on March 30, 2004, with Johanna Shelton, legal advisor to Commissioner Adelstein; Jordan Goldstein, legal advisor to Commissioner Copps; and Jonathan Cody, legal advisor to Chairman Powell; and on March 31, 2004, with Stacy Fuller, legal advisor to Commissioner Abernathy; Catherine Bohigian, legal advisor to Commissioner Martin; and the following staff members from the Media Bureau: Rick Chessen, Bill Johnson, Steven Broeckaert, Susan Mort, Mike Lance, Alison Greenwald, John Gabrysch, Mary Beth Murphy, and John Wong and with Amy Nathan of the Office of Strategic Planning and Policy Analysis.

The 4C representatives at these meetings were: Bruce Turnbull, Weil, Gotshal & Manges, LLP, outside counsel to Matsushita Electric Industrial Co., Ltd (all meetings), Paul Schomburg, Matsushita Electric Corporation of America/Panasonic (meetings with Goldstein and Cody); Donald Leake, IBM (all meetings); Cheryl Bruner, IBM (all meetings except with Cody); Michael Ayers, Toshiba (all meetings except with Shelton and Fuller); Michael Ripley, Intel (all meetings except with Fuller and Bohigian).

At each meeting, the discussion consisted of matters contained in the 4C's certification submission to the Commission in the above-captioned proceeding, including CPRM-Video technology descriptions and explanation of the license terms and conditions for 4C-Video technology, to demonstrate the CPRM-Video technology should

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be included on the list of approved technologies pursuant to the Commission's broadcast flag regulations. The attached document was distributed to FCC personnel in order to further explain the working of the 4C technology as part of the discussions.

Respectfully submitted,

Bruce N. July

Bruce H. Turnbull

Chair, Policy Group

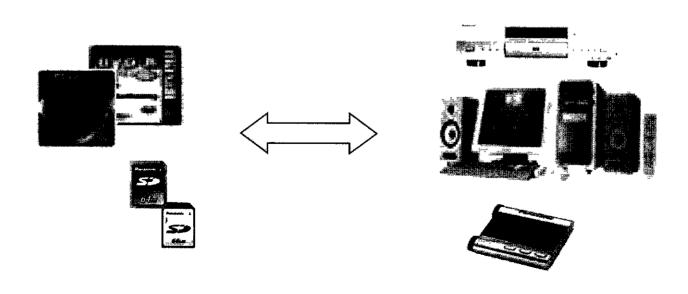
4C Entity, LLC

cc: Johanna Shelton Jordon Goldstein Jonathan Cody Stacy Fuller Catherine Bohigian Rick Chessen Bill Johnson Steven Broeckaert Susan Mort Mike Lance Alıson Greenwald John Gabrysch Mary Beth Murphy John Wong

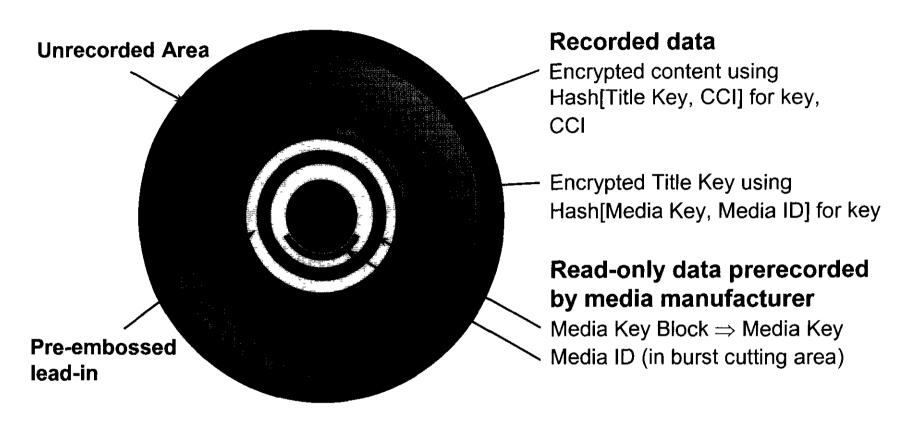
Amy Nathan

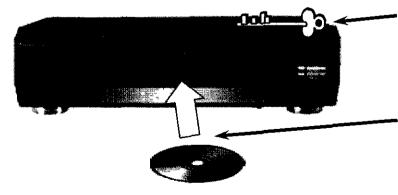
# 4C CPRM Technology

- Developed by Intel, IBM, MEI, Toshiba
- Protected exchange of content on portable storage media
  - Recordable DVD (DVD-R/RW/RAM)
  - Flash formats (SD Memory Card, CompactFlash)
  - Is being extended to other storage formats



# CPRM on DVD (overview)



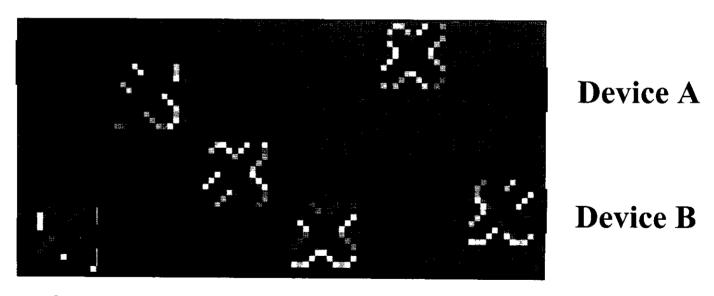


Individual keys for each device supplied to manufacturer by licensing entity

Device calculates Media Key from Media Key Block and device keys

## Media Key Blocks

- Scheme is large matrix of random keys
- Each device assigned one key from each column



 MKB is a data structure w/multiple ciphers of same media key under different device keys